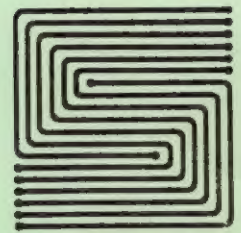


## STEPHENS MODEL 214 VARIABLE SPEED OSCILLATOR



STEPHENS  
ELECTRONICS, INC.  
3513 PACIFIC AVENUE  
BURBANK, CALIF. 91505  
PHONE: (213) 842-5116



### SPECIFICATIONS

GENERAL: The Stephens Model 214 Motor Power Supply is a solid state variable frequency power source, designed to control the speed of the capstan motor of a recorder or any similar system by varying its supply frequency.

INPUT: 117 V. A. C., 60 Hz., 2A.

OUTPUT: Modified 115 Volt RMS square wave, 150 Watts maximum.

FRONT PANEL: One six-position control switch; red pilot light; yellow indicator light; internal frequency oscillator controls for coarse and fine; four inch wide meter calibrated from 0-100 Hz.; meter calibration adjust; circuit breaker - all mounted on a standard 19" x 3-1/2" panel.

FRONT PANEL CONTROLS: 1. Six Position Switch; (a) "Emergency A. C." - 117 Volt fed directly to output in the event of failure (to eliminate down time.) (b) "Off." (c) "Sync" - Frequency controlled by external source. Output drops to zero volts if the source is less than 0 dbm. Maximum input +8 dbm. (d) "Auto" - Frequency controlled by external source. Output switches to sync with power line frequency if external signal drops below 0 dbm. (e) "Line" - Unit operates in sync with power line frequency. (f) "Internal Oscillator" - Frequency variable between 40 and 80 Hz. and can also be controlled by supplying a 0 to -30 V. D. C. control voltage. 2. Coarse Tuning Control - varies frequency between 40 and 80 Hz. 3. Fine Tuning Control - permits vernier frequency control of  $\pm 1$  Hz.

ADJUSTMENTS: 1. Meter calibration is achieved by switching to "LINE" or "EMERGENCY." Meter can then be calibrated to power line frequency (60 Hz.) 2. Internal oscillator frequency range is adjusted by the trimmer located on the rear of the chassis; shifts frequency range higher or lower.

DIMENSIONS: Standard rack mounting, 3 - 1/2" x 19" x 7" deep.

WEIGHT: 7 Lbs.

FINISH: Light gray color #26440 per Fed. Std. 595.

OPTION: 60 Hz. standard in place of line sync.

WARNING: LOAD MUST BE COMPLETELY ISOLATED FROM AC POWER LINE.